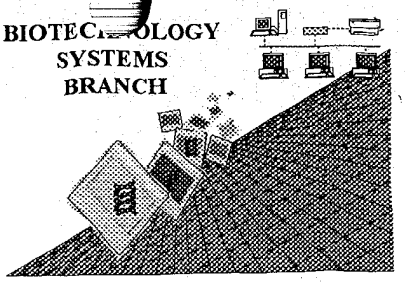
04CO
02-14-01

BIOTECHNOLOGY SYSTEMS BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/765,111

Source: OIPE

Date Processed by STIC: 2/2/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 3.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

OIPE

RAW SEQUENCE LISTING DATE: 02/02/2001
PATENT APPLICATION: US/09/765,111 TIME: 11:51:20

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\02022001\I765111.raw

Does Not Comply
Corrected Diskette Needed

4 <110> APPLICANT: Fletcher, Jonathan A.
5 Kroll, Todd G.
7 <120> TITLE OF INVENTION: PAX8-PPARgamma NUCLEIC ACID MOLECULES
8 AND POLYPEPTIDES AND USES THEREOF
11 <130> FILE REFERENCE: B0801/7196 (ERP/MAT)
OK 13 <140> CURRENT APPLICATION NUMBER: US/09/765,111
OK 13 <141> CURRENT FILING DATE: 2001-01-18
13 <150> PRIOR APPLICATION NUMBER: US 60/177,109
14 <151> PRIOR FILING DATE: 2000-01-20
16 <150> PRIOR APPLICATION NUMBER: US 60/225,079
17 <151> PRIOR FILING DATE: 2000-08-14
19 <160> NUMBER OF SEQ ID NOS: 47
21 <170> SOFTWARE: FastSEQ for Windows Version 3.0

ERRORED SEQUENCES

1091 <210> SEQ ID NO: 13
1092 <211> LENGTH: 2711 1372 nt now (p. 3)
1093 <212> TYPE: DNA
1094 <213> ORGANISM: Homo Sapiens
1096 <220> FEATURE:
1097 <221> NAME/KEY: CDS
1098 <222> LOCATION: (11)...(1363)
1100 <400> SEQUENCE: 13

```
1101  gaattcggcg atg cct cac aac tcc atc aga tct ggc cat gga ggg ctg        49
1102               Met Pro His Asn Ser Ile Arg Ser Gly His Gly Gly Leu
1103                 1               5                  10
1105  aac cag ctg gga ggg gcc ttt gtg aat ggc aga cct ctg ccg gaa gtg        97
1106  Asn Gln Leu Gly Gly Ala Phe Val Asn Gly Arg Pro Leu Pro Glu Val
1107        15                  20                  25
1109  gtc cgc cag cgc atc gta gac ctg gcc cac cag ggt gta agg ccc tgc       145
1110  Val Arg Gln Arg Ile Val Asp Leu Ala His Gln Gly Val Arg Pro Cys
1111    30                  35                  40                  45
1113  gac atc tct cgc cag ctc cgc gtc agc cat ggt tgc gtc agc aag atc       193
1114  Asp Ile Ser Arg Gln Leu Arg Val Ser His Gly Cys Val Ser Lys Ile
1115                    50                  55                  60
1117  ctt ggc agg tac tac gag act ggc agc atc cgg cct gga gtg ata ggg       241
1118  Leu Gly Arg Tyr Tyr Glu Thr Gly Ser Ile Arg Pro Gly Val Ile Gly
1119              65                  70                  75
1121  ggc tcc aag ccc aag gtg gcc acc ccc aag gtg gtg gag aag att ggg       289
1122  Gly Ser Lys Pro Lys Val Ala Thr Pro Lys Val Val Glu Lys Ile Gly
1123           80                  85                  90
1125  gac tac aaa cgc cag aac cct acc atg ttt gcc tgg gag atc cga gac       337
1126  Asp Tyr Lys Arg Gln Asn Pro Thr Met Phe Ala Trp Glu Ile Arg Asp
1127        95                 100                 105
1129  cgg ctc ctg gct gag ggc gtc tgt gac aat gac act gtg ccc agt gtc       385
```

RAW SEQUENCE LISTING DATE: 02/02/2001
PATENT APPLICATION: US/09/765,111 TIME: 11:51:20

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\02022001\I765111.raw

```
1130  Arg Leu Leu Ala Glu Gly Val Cys Asp Asn Asp Thr Val Pro Ser Val
1131  110                 115                 120                 125
1133  agc tcc att aat aga atc atc cgg acc aaa gtg cag caa cca ttc aac      433
1134  Ser Ser Ile Asn Arg Ile Ile Arg Thr Lys Val Gln Gln Pro Phe Asn
1135                  130                 135                 140
1137  ctc cct atg gac agc tgc gtg gcc acc aag tcc ctg agt ccc gga cac      481
1138  Leu Pro Met Asp Ser Cys Val Ala Thr Lys Ser Leu Ser Pro Gly His
1139              145                 150                 155
1141  acg ctg atc ccc agc tca gct gta act ccc ccg gag tca ccc cag tcg      529
1142  Thr Leu Ile Pro Ser Ser Ala Val Thr Pro Pro Glu Ser Pro Gln Ser
1143          160                 165                 170
1145  gat tcc ctg ggc tcc acc tac tcc atc aat ggg ctc ctg ggc atc gct      577
1146  Asp Ser Leu Gly Ser Thr Tyr Ser Ile Asn Gly Leu Leu Gly Ile Ala
1147      175                 180                 185
1149  cag cct ggc agc gac aag agg aaa atg gat gac agt gat cag gat agc      625
1150  Gln Pro Gly Ser Asp Lys Arg Lys Met Asp Asp Ser Asp Gln Asp Ser
1151  190                 195                 200                 205
1153  tgc cga cta agc att gac tca cag agc agc agc agc gga ccc cga aag      673
1154  Cys Arg Leu Ser Ile Asp Ser Gln Ser Ser Ser Ser Gly Pro Arg Lys
1155                  210                 215                 220
1157  cac ctt cgc acg gat gcc ttc agc cag cac cac ctc gag ccg ctc gag      721
1158  His Leu Arg Thr Asp Ala Phe Ser Gln His His Leu Glu Pro Leu Glu
1159              225                 230                 235
1161  tgc cca ttt gag cgg cag cac tac cca gag gcc tat gcc tcc ccc agc      769
1162  Cys Pro Phe Glu Arg Gln His Tyr Pro Glu Ala Tyr Ala Ser Pro Ser
1163          240                 245                 250
1165  cac acc aaa ggc gag cag ggc ctc tac ccg ctg ccc ttg ctc aac agc      817
1166  His Thr Lys Gly Glu Gln Gly Leu Tyr Pro Leu Pro Leu Leu Asn Ser
1167      255                 260                 265
1169  acc ctg gac gac ggg aag gcc acc ctg acc cct tcc aac acg cca ctg      865
1170  Thr Leu Asp Asp Gly Lys Ala Thr Leu Thr Pro Ser Asn Thr Pro Leu
1171  270                 275                 280                 285
1173  ggg cgc aac ctc tcg act cac cag acc tac ccc gtg gtg gca gat cct      913
1174  Gly Arg Asn Leu Ser Thr His Gln Thr Tyr Pro Val Val Ala Asp Pro
1175                  290                 295                 300
1177  cac tca ccc ttc gcc ata aag cag gaa acc ccc gag gtg tcc agt tct      961
1178  His Ser Pro Phe Ala Ile Lys Gln Glu Thr Pro Glu Val Ser Ser Ser
1179              305                 310                 315
1181  agc tcc acc cct tcc tct tta tct agc tcc gcc ttt ttg gat ctg cag     1009
1182  Ser Ser Thr Pro Ser Ser Leu Ser Ser Ser Ala Phe Leu Asp Leu Gln
1183          320                 325                 330
1185  caa gtc ggc tcc ggg gtc ccg ccc ttc aat gcc ttt ccc cat gct gcc     1057
1186  Gln Val Gly Ser Gly Val Pro Pro Phe Asn Ala Phe Pro His Ala Ala
1187      335                 340                 345
1189  tcc gtg tac ggg cag ttc acg ggc cag gcc ctc ctc tca ggg cga gag     1105
1190  Ser Val Tyr Gly Gln Phe Thr Gly Gln Ala Leu Leu Ser Gly Arg Glu
1191  350                 355                 360                 365
1193  atg gtg ggg ccc acg ctg ccc gga tac cca ccc cac atc ccc acc agc     1153
1194  Met Val Gly Pro Thr Leu Pro Gly Tyr Pro Pro His Ile Pro Thr Ser
```

RAW SEQUENCE LISTING DATE: 02/02/2001
PATENT APPLICATION: US/09/765,111 TIME: 11:51:20

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\02022001\I765111.raw

```
     1195                    370                 375                 380
     1197  gga cag ggc agc tat gcc tcc tct gcc atc gca ggc atg gtg gca gga     1201
     1198  Gly Gln Gly Ser Tyr Ala Ser Ser Ala Ile Ala Gly Met Val Ala Gly
     1199              385                 390                 395
     1201  agt gaa tac tct ggc aat gcc tat ggc cac acc ccc tac tcc tac         1249
     1202  Ser Glu Tyr Ser Gly Asn Ala Tyr Gly His Thr Pro Tyr Ser Ser Tyr
     1203          400                 405                 410
     1205  agc gag gcc tgg cgc ttc ccc aac tcc agc ttg ctg agt tcc cca tat     1297
     1206  Ser Glu Ala Trp Arg Phe Pro Asn Ser Ser Leu Leu Ser Ser Pro Tyr
     1207      415                 420                 425
     1209  tat tac agt tcc aca tca agg ccg agt gca ccg ccc acc act gcc acg     1345
     1210  Tyr Tyr Ser Ser Thr Ser Arg Pro Ser Ala Pro Pro Thr Thr Ala Thr
     1211  430                 435                 440                 445
     1213  gcc ttt gac cat ctg tag ttgaagctt                                 1372
     1214  Ala Phe Asp His Leu  *
E--> 1215                    450
```

FYI:

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY DATE: 02/02/2001
PATENT APPLICATION: US/09/765,111 TIME: 11:51:21

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\02022001\I765111.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1215 M:252 E: No. of Seq. differs, <211>LENGTH:Input:2711 Found:1372 SEQ:13
L:2364 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:36
L:2364 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:36
L:2364 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:36
L:2386 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:37
L:2386 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:37
L:2386 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:37
L:2402 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:38
L:2402 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:38
L:2402 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:38
L:2418 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:39
L:2418 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:39
L:2418 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:39
L:2452 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:40
L:2452 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:40
L:2452 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:40
L:2478 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:41
L:2478 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:41
L:2478 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:41
L:2501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:2502 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:2515 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:43
L:2515 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:43
L:2515 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:43
L:2530 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:2531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:2544 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:45
L:2544 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:45
L:2544 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:45
L:2559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:2560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:2573 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:47
L:2573 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:47
L:2573 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:47